


# UTP AF ROBOTIC 600

## Premium seamless gas-shielded cored wire for the hardfacing of shredders

| Product features  | User benefits   |  |
|---|---|--|
| » Seamless copper-coated cored wire                             | » Excellent, smooth wire feeding<br>» Reduced contact tip wear<br>» Resistant to moisture and rust formation                                      |  |
| » Controlled wire cast & helix                                  | » Limited “dog tailing” at contact tip, promoting well positioned beads   |  |
| » Wider window of applicable welding parameters than solid wire | » Significantly higher deposition rates and welding productivity<br>» Easy setting of parameters<br>» Allows calm, spatter-free spray arc welding |  |
| » Weldable in all welding positions                             | » One wire for all hardfacing jobs, regardless position   |  |
| » Available in drums with high filling content                  | » Less downtime for spool exchange  |  |
| » Total product performance from above features                 | » Dependable and productive welding consumable for automated / robotic welding  |  |

**Under the brand statement Tailor-Made Protectivity™, UTP Maintenance guarantees its customers the ideal combination of protection & productivity – anywhere in the world.**

UTP AF ROBOTIC 600 is an example of an innovative, tailor-made product – developed to optimally fulfill requirements in the waste & recycling industry. It is a seamless, copper-coated, gas-shielded cored wire for the hardfacing of components subjected to extreme combinations of pressure, impact and abrasion wear, such as shredders. The wire can be used in all welding positions and has excellent characteristics for the robotic welding of new equipment, for example onto shredder teeth. It performs equally well in semi-automatic GMAW used for on-site-repair of worn components.


When overlay welding onto S355 base material, a crack-free deposit with hardness of 55 HRC is already obtained in the first layer, increasing to a level of 57-62 HRC with the following layers. As such, the full weld overlay thickness will contribute to the wear resistance leading to a higher service life of the repaired components until next maintenance becomes necessary.

With a record of hundreds of successful applications, UTP AF ROBOTIC 600 has proven to meet the growing demand within the recycling industry for efficient maintenance solutions to protect machinery against wear and prolong the life of shredder components.

### Main applications



- » Shredder components in recycling equipment
- » Breakers or presses
- » Parts of earth moving equipment

# UTP AF ROBOTIC 600



| Classifications | Work data   |
|-----------------|---|
| EN 14700        | Welding positions   |
| T Fe8           |  |



| Typical chemical composition, all weld metal, wt. % |      |     |     |
|---|------|-----|-----|
| C   | Mn   | Si  | Cr  |
| 0.45  | 0.40 | 3.0 | 9.0 |

| Typical welding parameters for diameter 1.2 mm |   |   |
|--|---|---|
|  | Horizontal<br>(PA /1G)  | Vertical-up<br>(PF /3G-up)  |
| Wire feed speed (m/min.)                       | 6.5   | 3.5   |
| Amperage (A)                                   | 250   | 150   |
| Voltage (V)                                    | 28  | 21  |
| Travel speed (cm/min)                          | 30  | –   |
| Stick-out (mm)                                 | 15-20   | 15  |
| Polarity                                       |  |  |
| Shielding gas M21 (L/min.)                     | 18  | 18  |



| UTP AF ROBOTIC 600 / packaging  |   |  |                                      |
|---|---|--|--------------------------------------|
| LL-R-250  | Specification                               | Spool type BS300   | Specification                        |
|  | Round cardboard drum                        |  | Wire basket spool                    |
|   | Filling content: 250 kg                     |  | Filling content: 16 kg               |
|   | Available wire diameters (Art.-No.):        |  | Available wire diameters (Art.-No.): |
|   | 1.2 mm (84403)<br>1.6 mm (44032) on request |  | 1.2 mm (38744)<br>1.6 mm (38745)     |